

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P836382

Luminaire Tested: **ARCH3-180-722-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-180-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14436 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



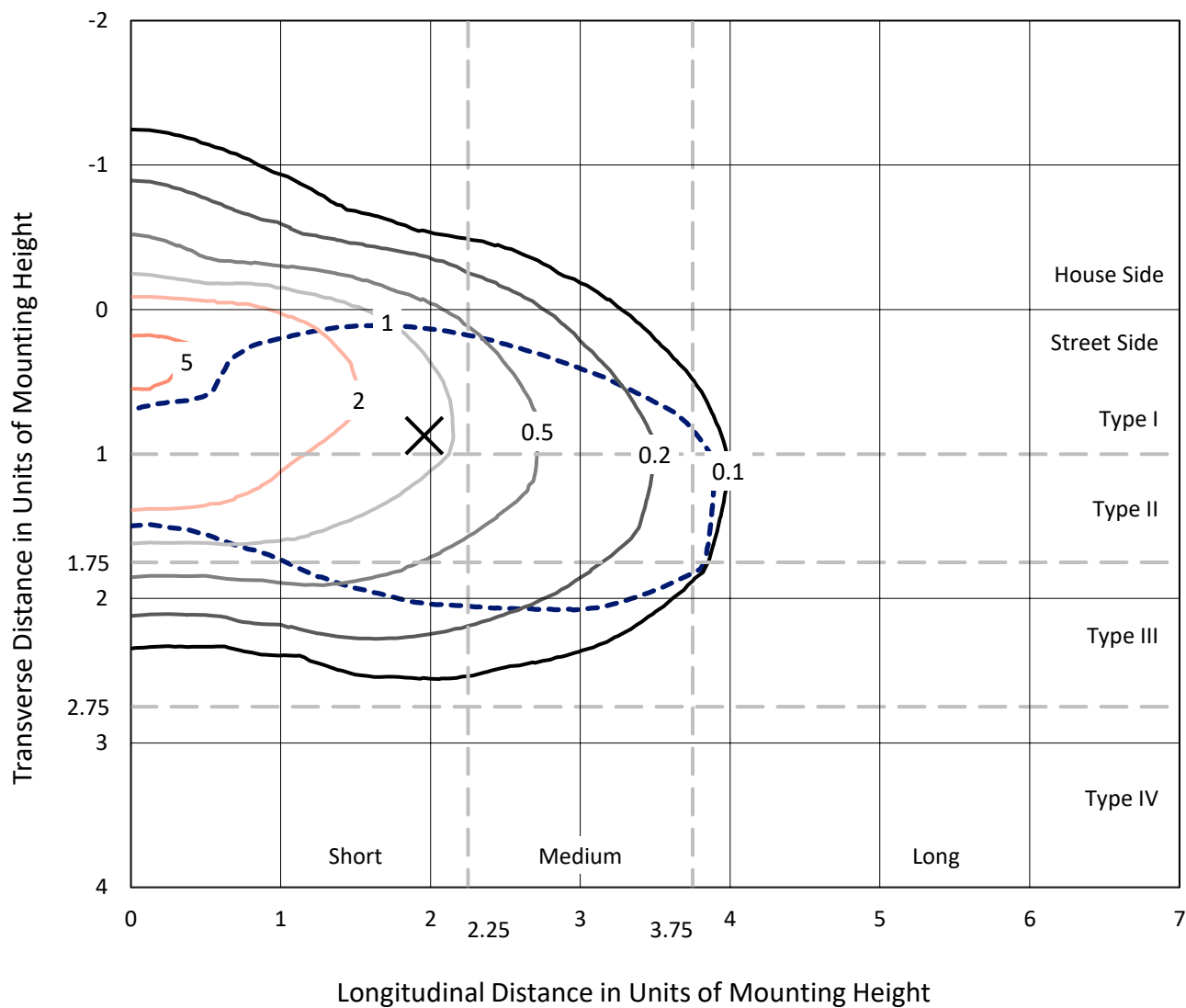
REPORT NUMBER: P836382

CATALOG NUMBER: ARCH3-180-722-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

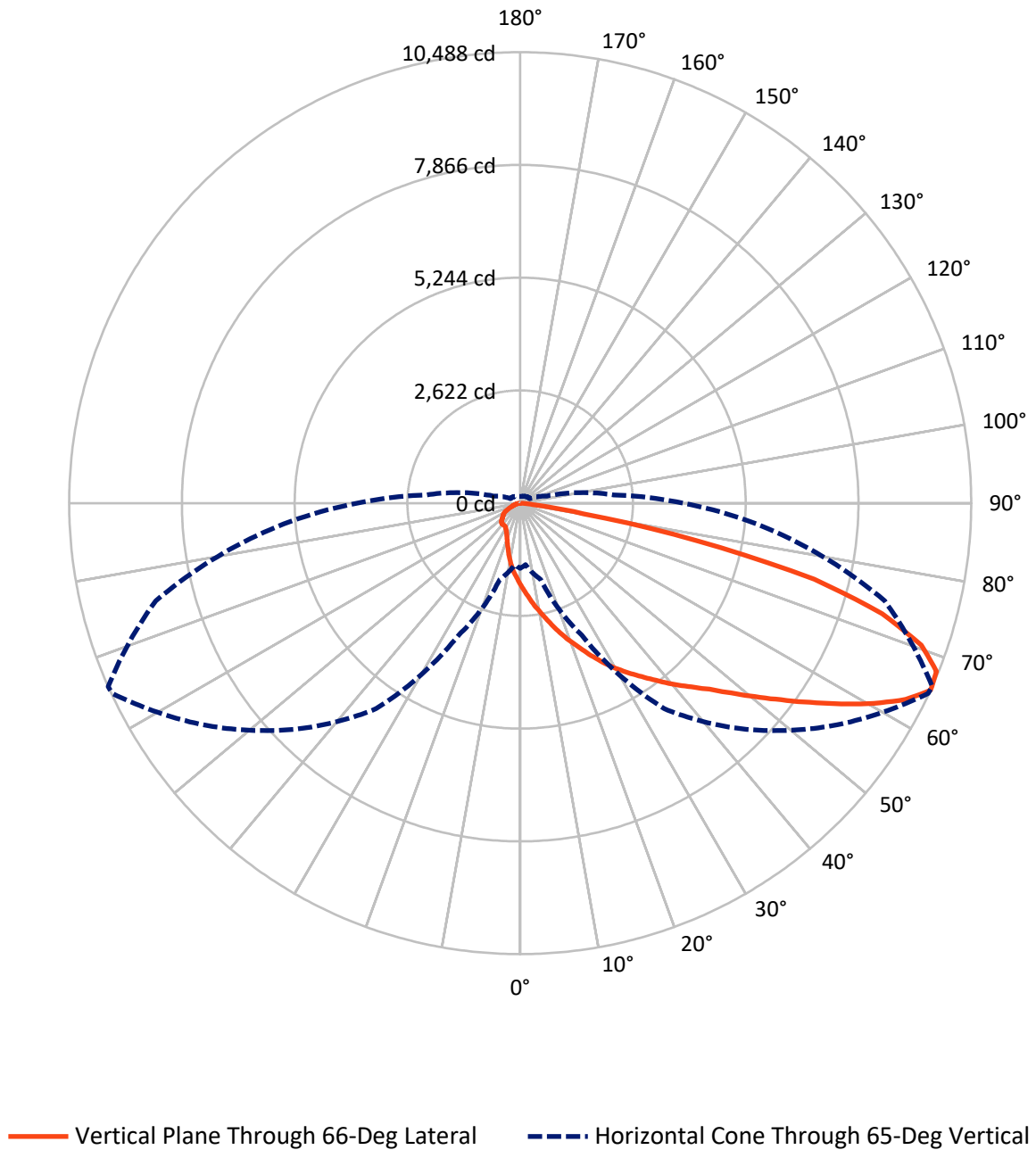


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type III - Short - N/A

REPORT NUMBER: P836382

CATALOG NUMBER: ARCH3-180-722-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P836382

CATALOG NUMBER: ARCH3-180-722-U-T3-HSS

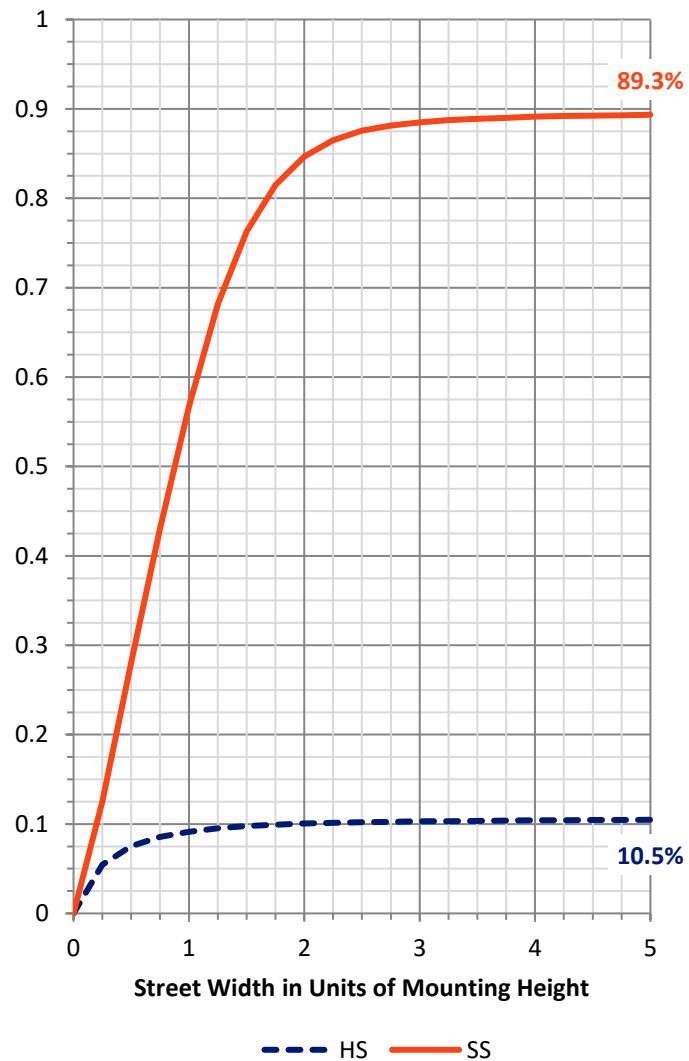
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1526.9	0.0	1526.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	12909.1	0.0	12909.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	14436.0	0.0	14436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.6	1.3
10°-20°	614.6	4.3
20°-30°	1112.0	7.7
30°-40°	1738.9	12.0
40°-50°	2637.9	18.3
50°-60°	3351.5	23.2
60°-70°	3131.6	21.7
70°-80°	1556.4	10.8
80°-90°	104.6	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14436.0	100.0
0°-180°	14436.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836382

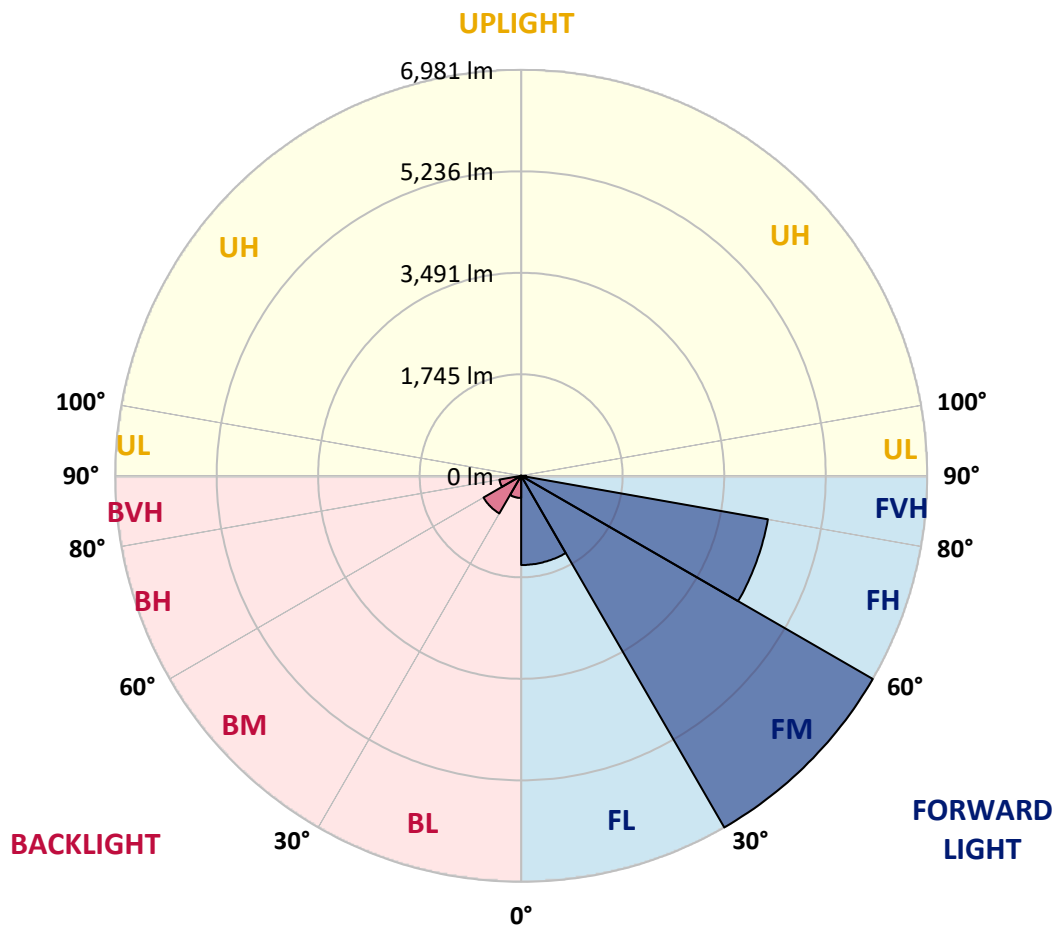
CATALOG NUMBER: ARCH3-180-722-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1533.8	10.6			
FM	(30°-60°)	6981.4	48.4			
FH	(60°-80°)	4307.8	29.8			G2/5000
FVH	(80°-90°)	86.1	0.6			G1/100
BL	(0°-30°)	381.3	2.6	B1/500		
BM	(30°-60°)	746.8	5.2	B1/1000		
BH	(60°-80°)	380.3	2.6	B1/500		G1/500
BVH	(80°-90°)	18.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P836382

CATALOG NUMBER: ARCH3-180-722-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5
2.5°	2231.5	2249.6	2258.7	2261.7	2192.1	2161.8	2131.6	2061.9	2046.8	2007.4	1955.9
5°	2625.1	2649.3	2643.2	2631.1	2546.4	2449.5	2370.7	2240.6	2219.4	2125.5	2010.4
7.5°	3012.6	3033.8	3027.8	2982.4	2888.5	2752.2	2622.1	2431.3	2401.0	2249.6	2064.9
10°	3336.6	3354.8	3351.7	3306.3	3194.3	3027.8	2870.3	2616.0	2579.7	2364.7	2110.4
12.5°	3603.1	3627.3	3624.2	3594.0	3494.1	3312.4	3133.7	2827.9	2782.5	2504.0	2173.9
15°	3812.0	3842.2	3842.2	3830.1	3760.5	3609.1	3406.2	3061.1	3006.6	2664.4	2252.7
17.5°	3939.1	3963.4	3984.6	4005.7	3957.3	3842.2	3657.6	3294.2	3236.7	2821.9	2334.4
20°	4005.7	4030.0	4045.1	4090.5	4099.6	4042.1	3896.7	3524.3	3463.8	3000.5	2428.3
22.5°	4114.7	4135.9	4139.0	4178.3	4196.5	4211.6	4120.8	3751.4	3703.0	3197.3	2534.2
25°	4296.4	4320.6	4311.6	4329.7	4332.7	4350.9	4341.8	4011.8	3963.4	3421.4	2661.4
27.5°	4529.5	4559.8	4553.8	4535.6	4508.4	4493.2	4532.6	4275.2	4229.8	3645.4	2791.6
30°	4780.9	4817.2	4808.1	4771.8	4699.1	4635.5	4690.0	4523.5	4481.1	3875.6	2936.9
32.5°	5035.2	5077.6	5074.5	5014.0	4889.9	4780.9	4862.6	4756.6	4726.4	4123.8	3094.4
35°	5201.7	5256.2	5250.2	5213.8	5053.4	4959.5	5059.4	4995.8	4974.6	4426.6	3321.5
37.5°	5471.2	5528.7	5477.2	5386.4	5201.7	5153.3	5274.4	5265.3	5250.2	4747.5	3560.7
40°	6125.2	6210.0	6073.7	5701.3	5398.5	5356.1	5528.7	5565.0	5549.9	5065.5	3775.6
42.5°	6809.5	6936.6	6724.7	6210.0	5755.8	5601.4	5807.3	5858.7	5840.6	5338.0	3969.4
45°	7224.3	7278.8	7066.8	6667.2	6388.6	5898.1	6104.0	6188.8	6173.6	5665.0	4217.7
47.5°	7563.4	7542.2	7300.0	7030.5	7082.0	6315.9	6440.1	6606.6	6594.5	6025.3	4490.2
50°	7636.0	7587.6	7490.7	7321.2	7457.4	6739.8	6794.3	7082.0	7069.9	6424.9	4765.7
52.5°	7124.4	7060.8	7324.2	7466.5	7421.1	7048.7	7184.9	7602.7	7596.7	6857.9	5029.1
55°	5846.6	5795.2	6503.7	7239.4	7381.7	7266.7	7617.9	8144.7	8178.0	7318.1	5268.3
57.5°	4599.2	4544.7	5241.1	6670.2	7236.4	7466.5	8123.5	8765.4	8807.8	7817.7	5495.4
60°	3666.6	3584.9	4117.8	5774.0	6963.9	7620.9	8611.0	9446.7	9452.7	8274.9	5634.7
62.5°	2491.9	2401.0	2991.4	4638.5	6506.7	7645.1	8986.4	10034.0	10058.3	8617.0	5658.9
65°	1513.9	1438.2	1837.9	3388.1	5831.5	7439.2	8992.5	10467.0	10488.2	8774.5	5513.6
67.5°	878.1	847.8	1050.6	2110.4	4711.2	6885.2	8614.0	10400.4	10439.8	8707.9	5183.5
70°	511.7	508.7	584.4	1044.6	3324.5	5786.1	7769.3	9840.3	9897.8	8359.7	4677.9
72.5°	375.4	381.5	411.8	560.1	1925.7	4166.2	6579.4	8713.9	8801.7	7678.4	3957.3
75°	296.7	299.7	327.0	381.5	1011.3	2355.6	4929.2	6994.2	7063.8	6464.3	3091.4
77.5°	221.0	227.1	248.3	269.5	469.3	1080.9	2773.4	4308.5	4193.5	3548.6	1492.7
80°	160.5	175.6	184.7	193.8	248.3	417.8	832.6	1501.8	1489.7	1550.2	705.5
82.5°	102.9	115.1	124.1	130.2	148.4	199.8	248.3	336.1	363.3	602.5	281.6
85°	45.4	51.5	57.5	69.6	63.6	69.6	102.9	66.6	57.5	90.8	51.5
87.5°	0.0	0.0	9.1	15.1	12.1	6.1	18.2	12.1	9.1	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P836382

CATALOG NUMBER: ARCH3-180-722-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5
2.5°	1928.7	1895.4	1825.7	1759.1	1719.8	1668.3	1622.9	1580.5	1577.5	1565.4	1544.2
5°	1952.9	1889.3	1759.1	1635.0	1541.1	1441.2	1356.4	1289.8	1265.6	1247.4	1223.2
7.5°	1977.1	1877.2	1683.4	1501.8	1353.4	1214.1	1114.2	1023.4	996.1	971.9	956.8
10°	1986.2	1856.0	1595.6	1353.4	1159.6	1011.3	905.3	838.7	814.5	802.4	793.3
12.5°	2013.5	1843.9	1513.9	1214.1	990.1	853.8	778.1	738.8	729.7	720.6	711.5
15°	2049.8	1843.9	1432.1	1077.9	856.9	747.9	702.4	675.2	669.1	666.1	660.1
17.5°	2089.2	1843.9	1353.4	962.8	760.0	678.2	644.9	629.8	626.7	623.7	620.7
20°	2143.7	1846.9	1268.6	862.9	690.3	626.7	599.5	581.3	578.3	575.3	575.3
22.5°	2198.2	1853.0	1186.9	787.2	644.9	587.4	554.1	535.9	529.9	529.9	529.9
25°	2267.8	1871.2	1111.2	723.6	605.6	551.1	508.7	493.5	490.5	490.5	487.5
27.5°	2349.6	1892.4	1044.6	675.2	566.2	508.7	466.3	451.1	445.1	445.1	442.1
30°	2437.4	1913.6	990.1	638.9	526.8	466.3	426.9	408.7	402.7	405.7	402.7
32.5°	2534.2	1943.8	947.7	614.6	490.5	429.9	393.6	372.4	369.4	369.4	366.4
35°	2697.7	2028.6	941.6	602.5	460.2	402.7	366.4	345.2	342.1	342.1	339.1
37.5°	2873.4	2125.5	968.9	596.5	436.0	378.5	345.2	324.0	320.9	320.9	320.9
40°	3021.7	2198.2	999.2	596.5	420.9	357.3	327.0	308.8	308.8	308.8	308.8
42.5°	3121.6	2204.2	993.1	596.5	408.7	342.1	314.9	296.7	296.7	299.7	296.7
45°	3270.0	2234.5	968.9	587.4	399.7	330.0	302.8	287.6	284.6	287.6	287.6
47.5°	3445.6	2289.0	944.7	551.1	396.6	317.9	293.7	275.5	272.5	275.5	272.5
50°	3612.1	2337.4	932.6	502.6	390.6	305.8	281.6	263.4	260.4	263.4	260.4
52.5°	3751.4	2358.6	911.4	469.3	375.4	293.7	269.5	251.3	245.2	248.3	248.3
55°	3863.4	2352.6	881.1	442.1	348.2	281.6	254.3	239.2	230.1	230.1	227.1
57.5°	3966.4	2355.6	853.8	414.8	317.9	263.4	242.2	224.1	211.9	208.9	205.9
60°	4005.7	2340.5	805.4	378.5	287.6	248.3	227.1	205.9	193.8	190.7	187.7
62.5°	3951.2	2286.0	741.8	314.9	260.4	230.1	211.9	190.7	178.6	175.6	172.6
65°	3796.8	2183.0	644.9	248.3	236.2	208.9	193.8	178.6	163.5	157.4	154.4
67.5°	3533.4	2034.7	523.8	199.8	208.9	190.7	181.7	163.5	145.3	139.3	136.2
70°	3158.0	1837.9	393.6	169.6	184.7	169.6	163.5	145.3	130.2	124.1	121.1
72.5°	2631.1	1519.9	275.5	145.3	160.5	148.4	142.3	130.2	115.1	106.0	106.0
75°	1989.2	1090.0	181.7	124.1	133.2	127.2	118.1	109.0	99.9	93.9	90.8
77.5°	856.9	423.9	112.0	93.9	109.0	106.0	93.9	87.8	84.8	78.7	78.7
80°	369.4	172.6	69.6	69.6	78.7	75.7	72.7	66.6	66.6	63.6	60.6
82.5°	136.2	69.6	42.4	51.5	57.5	51.5	51.5	51.5	51.5	48.4	48.4
85°	33.3	21.2	21.2	30.3	33.3	30.3	33.3	30.3	30.3	30.3	27.2
87.5°	9.1	9.1	12.1	12.1	12.1	12.1	12.1	9.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)